

PATENT COOPERATION TREATY

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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY
(PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/EP2005/000044

International filing date (day/month/year)
05.01.2005

Priority date (day/month/year)
05.01.2004

International Patent Classification (IPC) or both national classification and IPC
B64C1/40

Applicant
AIRBUS DEUTSCHLAND GMBH

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/EP2005/000044

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material:
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing:
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/EP2005/000044

Box No. V Reasoned statement under Rule 43b/s.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	2-17, 19-22
	No: Claims	1, 18
Inventive step (IS)	Yes: Claims	2-17
	No: Claims	1, 18-22
Industrial applicability (IA)	Yes: Claims	1-22
	No: Claims	

2. Citations and explanations

see separate sheet

Re Item V.

1 Reference is made to the following documents:

D1 : US 6 358 591 B1 (SMITH SHERMAN S) 19 March 2002 (2002-03-19)

2 INDEPENDENT CLAIM 1

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

Document D1 discloses (the references in parentheses applying to this document) an insulation package arrangement for insulating the interior of an aircraft fuselage, whose structural unit not only includes stringers with which all the panels of an outer skin of an aircraft fuselage structure are stiffened, but also several ribs which are arranged perpendicular to the longitudinal axis of the aircraft at a specified distance, and which are attached to the stringer, with a rib carrier being integrated into said ribs on the unattached end which rib carrier continues parallel to the longitudinal axis of the aircraft (fig. 1), in which arrangement

- several fuselage insulation packages which comprise an elongated package shape (col. 6, l. 46-48) are situated in the direction of the longitudinal axis of the aircraft at the fuselage structure of the aircraft (col. 6, l. 30-34), wherein
- said fuselage insulation packages which longitudinally rest against a support surface of the stringers which are attached to the aircraft fuselage or which are placed so as to longitudinally rest against an inner area of a panel of the outer skin (col. 6, l. 30-34), and
- these fuselage insulation packages are attached on a longitudinal side of the ribs (fig. 10), which additionally are arranged so as to be completely enclosed by a foil (23) (col. 6, l. 40-43 and 50-53; figs. 5) and within a space enclosed by interior panelling and by the panels of an outer skin (figs. 1 and 2);
- whose design is implemented with burn-through-proof insulation of a larger cross section (24) and/or with a burn-through-proof barrier layer of a smaller cross section (33), which are arranged either individually or in combination within the fuselage insulation package (fig. 5),

- in which the insulation or the barrier layer is guided so as to be situated either close to or resting against an interior wall region of the foil wall (col. 6, l. 30-34; figs. 4, 10), or only the insulation is attached outside and resting against the circumference of the foil of the fuselage insulation package (fig. 5),
- which on the long end of the fuselage insulation package continues outward with a flat insulation end section (35) which in a rib attachment region arranged below the longitudinal sides of a rib and adjacent to the stringer is attached with burn-through-proof attachment elements to the rib (figs. 4, 10).

3 DEPENDENT CLAIMS 18-22

Dependent claims 18-22 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

4 DEPENDENT CLAIMS 2-17

The combination of the features of dependent claims 2-17 are neither known from, nor rendered obvious by, the available prior art.

Further observations

- 5 The subject-matter of claim 1 has been defined as insulation package arrangement, but also specifies its relationship to a fuselage which is not part of the claimed entity. Therefore, claim 1 is not clear in the sense of Article 84 EPC (see also the Guidelines C-III, 4.8a).
- 6 It is not clear (Article 84 EPC) in claim 1, lines 26 to 28, which insulation part is attached outside of which other feature.
- 7 It is not clear (Article 84 EPC) in claim 2, that the package region and the ongoing insulation end region are arranged on opposite sides of a rib.

- 8 The terms "traditionally used field insulation package" and "traditionally used rib insulation package" in claim 18 are not clear, instead specific technical features should be used.
- 9 Text in parentheses is not to be used according to Rule 29(7) (see also the Guidelines C-III, 4.11).
- 10 Independent claim 1 is not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate.